



VOLTAS LIMITED
ACnR Business Group

Micro-Processor Controlled Packaged & Ductable Split Units



THE VOLTAS INTELLISYS RANGE

The Voltas **INTELLISYS** range of Packaged and Ductable Split Units are designed to be the most **INTELLIGENT** and **COMPACT** systems, to cater to your total cooling requirements. Applications include offices, banks, departmental stores, entertainment centres, multiplexes, restaurants, fast food centres, residences, computer rooms, telephone exchanges, hospitals, auditoriums, conference halls, theatres, factories, control rooms, etc. Packaged & Ductable Split units are available in both **Air-cooled** and **Water-cooled** options.

SIX POWERFUL FEATURES



Reliability

All products are made in our manufacturing plants, equipped with the latest and sophisticated tooling and machinery, backed by a modern R&D facility. The products are **best in class**, designed specially for tropical conditions with high level of reliability.



Clean Air

Special synthetic woven filters remove fine dust particles to give clean air all the time. The filters are easily removable and washable.



Energy Efficiency

A range of sophisticated components such as a highly energy efficient compressor internally grooved **cross hatched copper tube** coil with matched circuitry, and a microprocessor controller, results in a low power consumption.



Humidity Control

A highly efficient evaporator coil keeps the room humidity within the desired comfort range. Fine-tuning of humidity beyond this range can be provided as an option.



Space Saving

The outdoor condensing unit, in a Ductable split unit, is the **most compact** in the industry and can be placed on a ledge, terrace or a wall mounted bracket. The indoor unit can be ceiling suspended or loft mounted, a **unique advantage**.



Voltas Countrywide After Sales Service

A nation-wide service network backs every unit. After the initial warranty period, Voltas offers annual service schemes. More than 90% of the customers have opted for these schemes. You cannot get a better insurance.



Departmental Stores

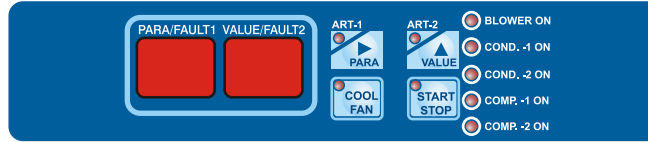


Restaurants



Shopping Malls

MICROPROCESSOR CONTROLLER



EIGHT UNIQUE BENEFITS

The microprocessor controller, installed on all the units, offers you the following benefits:



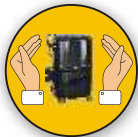
Power Saving

The microprocessor controller switches off the condenser fan when the compressor cuts off, thereby saving valuable power.



Fault Diagnostics

The microprocessor controller displays trip conditions enabling quicker identification of the fault and faster remedial action. This results in lower downtime of the unit.



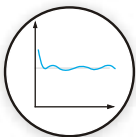
Motor Protection

A unique Motor Protection device, which not only protects the compressor motor from single phasing and over load as in conventional devices, but also protects the compressor from **under load, phase reversal** and **phase imbalances**. This increases compressor life.



Auto Re-start

Unlike conventional units, our units have a unique power-down memory, which ensures automatic restart of the unit as soon as power is restored. This saves the effort of restarting the unit.



Precise Control

The electronic temperature sensor ensures precise control on temperature, as compared to a conventional thermostat.



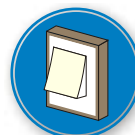
Anti-Recycle timer

The microprocessor controller starts the compressor after a set delay, thereby enhancing its life. Frequent starts/stops in the conventional units decrease the life of the compressor and the electrical switchgear.



Programmable Operation

An optional feature is the real-time clock which enables programmable operation for one year including holidays. This avoids the need of an operator.



Operation Friendly

Our units can be started and stopped with a single button and the microprocessor does the rest, thus making them very user friendly.



Hospitals



Control Rooms



Banks

COMPRESSORS

Semi-Hermetic Compressor



(7.5 & 15 TR units)

Low Power Consumption.
Lowest Down Time.
Longest Life.

Hermetic Compressor



(5.5 TR & 11 TR units)

Compact, efficient design.
Lower power consumption.

Scroll Compressor



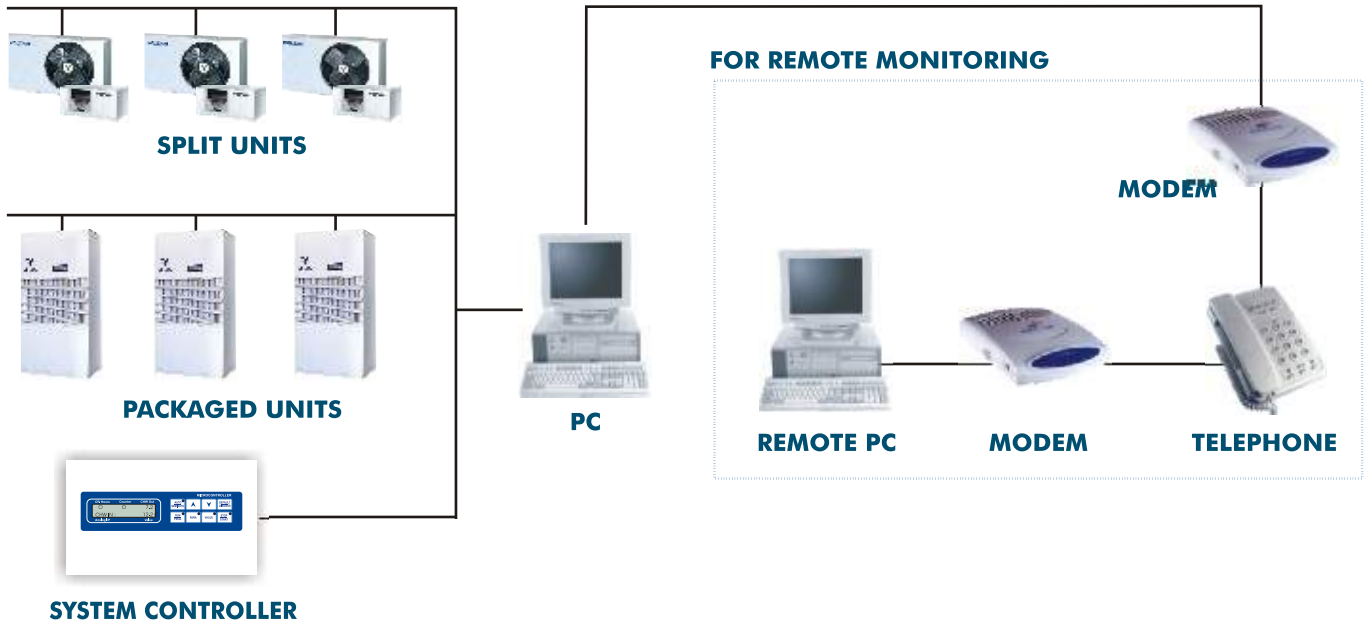
(5.5, 8.75, 11 & 17 TR units)

Power saving.
Balanced Design.
Enhanced Reliability.

MONITORING AT YOUR FINGER TIPS

The VSCADA system

- ❖ The Voltas Supervisory Control And Data Acquisition system (VSCADA) enables link-up of all the Packaged and / or Ductable Split units in a building, to a Personal Computer
- ❖ This enables Operation & Monitoring of each unit from the PC
- ❖ Remote Monitoring from anywhere on the globe is also possible through a modem link-up



YOU NAME IT, WE HAVE IT.

TECHNICAL DATA - DUCTABLE SPLIT UNITS

(RECIPROCATING-HERMETIC/SEMI-HERMETIC COMPRESSOR UNITS)

Nominal TR	5.5	7.5	11.0	15.0	
Refrigerant	R-22	R-22	R-22	R-22	
Compressor	Hermetic	Semi-Hermetic	Hermetic	Semi-Hermetic	
Model	ACDEU55CK	ACDEU85	ACDEU85C	ACDEU110C	ACDEU170C
Length (mm)	1260	1190	1450	1900	2200
Depth (mm)	678	1110	660	760	850
Height (mm)	342	560	460	460	600

AIR-COOLED CONDENSING UNITS

Model	ACDCUH55	ACDCUSH75	ACDCUH55SP	ACDCUSH75SP
No. of fans	1 No.	1 No.	1 No.	1 No.
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
No. of units	1 No.	1 No.	20Nos.	2 Nos.
Bare Weight (Kg)	112	190	112	190
Length (mm)	920	1320	920	1320
Depth (mm)	460	575	460	575
Height (mm)	750	750	750	750
Type of tubes	Cross-hatched high efficiency copper tubes			

WATER-COOLED CONDENSING UNITS

Model	ACDCUWH55	ACDCUWSH75	ACDCUWH55SP	ACDCUWSH75SP
No. of Units	1 No.	1 No.	2 Nos.	2 Nos.
Bare Weight (Kg)	132	210	132	210
Length (mm)	900	900	900	900
Depth (mm)	615	615	615	615
Height (mm)	665	665	665	665

(SCROLL COMPRESSOR UNITS)

Nominal TR	5.5	8.75	11.0	17.0
Refrigerant	R-22	R-22	R-22	R-22
Compressor	Scroll	Scroll	Scroll	Scroll
No. of Compressors	1	1 or 2 (Optional)	2	2

EVAPORATOR UNITS

Model	ACDEU55CK	ACDEU852	ACDEU85C2	ACDEU110C	ACDEU170C
Length (mm)	1261	1190	1450	1900	2200
Depth (mm)	678	1110	660	750	850
Height (mm)	342	560	460	460	600

AIR COOLED CONDENSING UNIT

Model	ACDCUSC55	ACDCUSC2875	ACDCUSC55SP	ACDCUSC875SPD
No. of fans	1 No.	1 No.	1 No.	1 No.
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
No. of units	1 No.	1 No.	2 Nos.	2Nos.
Bare weight (kg)	100	140	100	140
Length (mm)	920	1320	920	1320
Depth (mm)	460	460	460	460
Height (mm)	750	960	750	960
Type of tubes	Cross-hatched high efficiency copper tubes			

WATER COOLED CONDENSING UNIT

Model	ACDCUWSC55	ACDCUWSC875D	ACDCUWSC55SP	ACDCUWSC875SPD
No. of units	1 No.	1 No.	2 Nos.	2Nos.
Bare weight (kg)	120	160	120	160
Length (mm)	900	900	900	900
Depth (mm)	615	615	615	615
Height (mm)	665	665	665	665

TECHNICAL DATA - PACKAGED UNITS

(HERMETIC/SEMI-HERMETIC COMPRESSORS UNITS)

Nominal TR	5.5	7.5	11	15
Refrigerant	R-22	R-22	R-22	R-22
Compressor	Hermetic	Semi-Hermetic	Hermetic	Semi-Hermetic

Model : Water-Cooled	ACDPUWH55	ACDPUWSH75	ACDPUWH100	ACDPUWSH150C	
No. of Compressors	1 No.	1 No.	2 Nos.	2 Nos.	2 Nos.
Model : Air-Cooled	ACDPUAH55	ACDPUASH75	ACDPUASH100	ACDPUASH150C	
Motor	0.75 HP	1.0 HP	2.0 HP	3.0 HP	3 HP
No. of fans	1 No.	1 No.	1 No.	1 No.	2 Nos.
Bare weight (kg)	280	300	400	500	570
Length (mm)	900	900	1220	1800	1800
Depth (mm)	660	660	740	745	740
Height (mm)	1850	1850	1750	1850	1850

CONDENSER (AIR-COOLED UNIT)

Model	ACDC55	ACDC85	ACDC55	ACDC85
No. of fans	1 No.	1 No.	1 No.	1 No.
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
No. of units	1 No.	1 No.	2 Nos.	2 Nos.
Bare weight (kg)	62	90	62	90
Length (mm)	920	1320	920	1320
Depth (mm)	460	460	460	460
Height (mm)	750	750	750	750
Type of tubes	Cross-hatched high efficiency copper tubes			

(SCROLL COMPRESSOR UNITS)

Nominal TR	5.5	8.75	11	17
Refrigerant	R-22	R-22	R-22	R-22
Compressor	Scroll	Scroll	Scroll	Scroll

Model Water-Cooled	ACDPUWSC55	ACDPUWSC875D	ACDPUWSC110	ACDPUWSC170CD
No. of Compressors	1 No.	1 No.	2 Nos.	2 Nos.
Model : Air-Cooled	ACDPUASC55	ACDPUASC875D	ACDPUASC110	ACDPUASC170CD
Motor	0.75 HP	1.0 HP	2.0 HP	3.0 HP
No. of fans	1 No.	1 No.	1 No.	1 No.
Bare weight (kg)	280	300	400	500
Length (mm)	900	900	1220	1490
Depth (mm)	660	660	740	745
Height (mm)	1850	1850	1750	1790

CONDENSER (AIR-COOLED UNIT)

Model	ACDC55	ACDC875	ACDC55	ACDC875
No. of fans	1 No.	1 No.	1 No.	1 No.
Motor	0.5 HP	0.5 HP	0.5 HP	0.5 HP
No. of units	1 No.	1 No.	2 Nos.	2 Nos.
Bare weight (kg)	62	100	62	100
Length (mm)	920	1320	920	1320
Depth (mm)	460	460	460	460
Height (mm)	750	960	750	960
Type of tubes	Cross-hatched high efficiency copper tubes			

FEW OF OUR INSTALLATIONS...



Akruti



Dell Whitefield



Eternity Mall Multiplex



Kyber Restaurant

Largest Ductable Split Units Project In India



Mega Mall

OFFICE	TELEPHONE	FAX
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NORTHERN REGION

DELHI (Branch)	(011)55505550 (011)55505570	(011)26950022 (011)26950081
Chandigarh	(0172)2663669	(0172)2604625
Gurgaon	(0124) 5060504	
Jaipur	(0141)5179983	(0141)5179983
Ludhiana	(0161)2500223	
LUCKNOW (Branch)	(0522)2238538 (0522)2237869	(0522)2238532
Dehradun	(0135)2750401	

WESTERN REGION

AHMEDABAD (Branch)	(079)55301100 (079)25602835	(079)55301180 (079)55301190
Ankleshwar	(02646)238199	
Rajkot	(0281)2578124	
Silvassa	(0260)2640363	
Surat	(0261)2422761	(0261)2412824
Vadodra	(0265)2351706	(0261)2332098
MUMBAI (Branch)	(022)56656754-61 (022)56656783-85	(022)56656797 (022)56656768
Goa	(0832)2463664	
Indore	(0731)2498616	
Nagpur	(0712)5618846	
Nashik	(0253)2455169	
PUNE (Branch)	(020)56025600 (020)56046602	(020)56046600 (020)56046601
Aurangabad	(0240)2320510	

OFFICE	TELEPHONE	FAX
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EASTERN REGION

JAMSHEDPUR (Branch)	(0657)2431062 (0657)2434322	(0657)2432201
Patna	(0612)2232717	
Raipur	(0771)5059303	
KOLKATA (Branch)	(033)22540234 (033)22540300	(033)22300108
Guwahati	(0361)2463073	

SOUTHERN REGION

BANGALORE (Branch)	(080)22275150 (080)22273691	(080)22270172 (080)22998508
Mangalore	(0824)2453316	
CHENNAI (Branch)	(044)55510666 (044)55510669	(044)24342178
Coimbatore	(0422)2211188	(0422)2211188
Madurai	(0452)2535818	
HYDERABAD (Branch)	(040)55208100 (040)55208103	(040)55203882
Vijaywada	(0866)2435282	(0866)2431507
Visakhapatnam	(0891)2754051	(0891)2562096
KOCHI (Branch)	(0484)2359621 (0484)2359648	(0484)2357129
Calicut	(0495)2770503	
Thiruvananthapuram	(0471)2338873	

Backed by: Voltas countrywide after sales service.



VOLTAS LIMITED

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Visit us at : www.voltasacnr.com

A **TATA** Enterprise